

# **HUNTERS POINT SHIPYARD BASE REALIGNMENT AND CLOSURE CLEANUP TEAM MEETING MINUTES**

**February 24, 2011**

These minutes summarize the meeting of the Hunters Point Shipyard (HPS) Base Realignment and Closure (BRAC) Cleanup Team (BCT) held on February 24, 2011, at the CH2M HILL offices in Oakland, California. Participants in the meeting included the BCT, which is made up of representatives from the Department of the Navy (Navy), the United States Environmental Protection Agency (USEPA), the California Department of Toxic Substances Control (DTSC), and the San Francisco Bay Regional Water Quality Control Board (Water Board). The City of San Francisco (City), their consultants, the Lennar team of developers, and Navy consultants also attended the meeting. These minutes describe the key points, decisions, and action items agreed to at the meeting. A list of attendees is included as Attachment A. The revised document review table is included as Attachment B. The action items from the meeting are included as Attachment C.

## **1.0 Navy Business/Action Items (Keith Forman, Navy)**

Keith Forman (Navy, Base Environmental Coordinator [BEC]) began the meeting with introductions and a review of the action items from the January 27, 2011, BCT meeting:

- Jim Whitcomb (Navy, Deputy Lead Remedial Project Manager [RPM]) will get in contact with California Department of Public Health (CDPH) about collecting samples at Buildings 313 and 313A and Parcel D-1 322 sites while the excavation sites and trenches are still open. *In progress, Mr. Whitcomb said more bounding and sampling is going on, and they are not at a point to split samples.*
- Mr. Whitcomb will provide a copy of the Radiological Program schedule to Steve Hsu (CDPH) in order to plan and schedule radiological scans and prepare a list of site statuses. *In progress, IR 7/18 is next but not until June. Hopefully in May, Navy will have a date for CDPH to come out. Mr. Forman said that the Navy needs to plan so CDPH can have at least a month lead time to schedule sampling. Ryan Miya (DTSC) and Mr. Forman are going to go to Sacramento to speak with CDPH about the dose modeling. Amy Brownell (City) said that it needs to be resolved so the escrow instruction can be included in the transfer package. Mr. Whitcomb noted that there will be an update in the radiological program update presentation.*
- Tracy Jue (CDPH) will find out from Larry Morgan (CDPH) the status of the five samples submitted for confirmatory analysis from Building 157 and 317, 364, 365 expansion area and will send an email to Mr. Miya. *In progress, Mr. Miya said that they are working on it. Mr. Forman stated that the 80 day clock is ticking away. There were no meeting participants from CDPH attending the meeting to provide an update. Mr. Miya said that they may have an update at the end of the week, Friday, February 25, 2011.*

- The Navy will find out if the count times have increased at the onsite laboratory. Mr. Whitcomb said that the count times are about the same as they have been in the past. The contractor said that they have not changed the count times.
- The Navy will provide the Water Board the Rad results from the stormwater in the frac tanks to determine if that water can be used for dust control. *In progress, Lara Ulrika (Navy, RPM) said that they do not have all of the results yet. Ulrika Messer (Shaw) said that it would take about about four weeks to receive the results.*
- Ross Steenson (Water Board) will check with Water Board to see if the water from the frac tanks can be used for dust control. *Complete. Mr. Steenson sent an email saying that the water can be used pending sample results.*
- Ryan Miya will get back to the Navy next week regarding the need for further investigation of potentially contaminated soil around Building 123. *Complete. This item was resolved and removed from action items list.*

## **2.0 Radiological Update (Chris Yantos, Navy)**

Mr. Yantos (Navy, RPM) said that the project map has not changed since January 2011. Mr. Forman noted that they are running at capacity and Parcel C and Parcel D-1 are completely torn up right now. All sanitary sewer/storm drain (SS/SD) lines have been removed at Crisp Road and backfill has been completed. The Crisp Road project is complete. The Navy is waiting on a confirmation survey at Building 810. Mr. Miya said that Ms. Jue is in the process of getting the memo completed. CDPH is scheduled to do a confirmation survey at Building 810. Mr. McGowan asked about the Building 810 report. He said that the null hypothesis is pretty confusing in the document and is writing up an explanation. Mr. Forman said that the Navy should take this into consideration without formal written comments. The contractor said that the wording for statistical testing is confusing and needs to be clarified. Mr. Yantos summarized the Parcel E document statuses. The sanitary sewer and storm drain line removal and backfill has been completed. Crisp Road is completed and paved. The Navy is reviewing the stormwater control design. CDPH completed the Building 406 confirmation survey on November 18, 2010. The Building 810 final status survey (FSS) has been issued and the CDPH confirmation survey is scheduled for March 3, 2011. The Building 414 draft FSS has been submitted to the agencies on February 15, 2011. The Sites 701 and 704 draft FSSs are under Radiological Affairs Support Office (RASO) review. The Building 707 triangle and the Installation Restoration (IR)-04 Scrap Yard field work is ongoing.

Mr. Yantos provided an update on the Parcel C sanitary sewer and storm drain line removal and building surveys. To date, 5,149 linear feet have been removed from central Parcel C. The FSS for Building 272 was completed on February 7, 2011. The FSS is for Building 271 is in progress. The Navy is performing a pre-task-specific plan (TSP) fire-brick and asbestos abatement of four furnaces prior to developing the TSP. The radiological survey and sanitary sewer and storm drain removal will be performed prior to the North Pier demolition project.

Mr. Yantos summarized the upcoming field work at Parcel D-1. The removal of the storm drains and the sanitary sewers is being performed. To date, 4,750 lineal feet have been removed.

The field instrument for the detection of low energy radiation (FIDLER) study was completed at the Gun Mole Pier. 38 survey units were evaluated. Survey and sampling has been completed at the South Pier. To date, there have been two Cesium (Cs)-137 detections above investigation levels in one survey unit. The Navy is awaiting the analytical results for the remaining survey units. There were no detections above investigation levels at Building 274. The foundation removal was completed at Building 383, the police building; and Mr. Whitcomb said that to date, there has not been any detection of Europium at Building 383. The Building 313, 313A, and 322 sites have been surveyed and sampled. There were elevated levels of Cs-137 and Radium (Ra)-226 above the action limits. The TSP was revised to include additional survey, sampling, and remediation. The Navy will continue to remove the sanitary sewer and storm drain lines. The Navy plans to complete additional survey, sampling, and remediation at Buildings 313, 313A, and 322 sites. The Navy will continue the asphalt removal and characterization survey and sampling for the Gun Mole Pier and then begin backfilling the trenches with RASO approval. Following backfill, the Navy will develop and submit the survey unit project reports (SUPRs).

Mr. Yantos presented the map of the Parcel E 500 series. The final project work plans for the sanitary sewer and storm drain removal and the site clearing activities have been completed. The Final Execution Plan was submitted on January 20, 2011, and the Final Design Plan was submitted on February 18, 2011. The Navy is setting up perimeter fencing. The site is being cleared and grubbed, but there have been no excavation or surveys to date. The TSPs for Parcel E will be developed as clearing and grubbing of the site allows the contractor to confirm the current site conditions.

He summarized the Parcel B building survey statuses. Mr. Yantos showed the updated bar chart that detailed site progress. Mr. Whitcomb noted that a new dry dock that had been built on top of an old one had been discovered. Ms. Kito said that they have a lot more information about what flowed through those channels. Mr. Forman said that it alludes to the fact that Building 140 should be free released. All building surveys at Parcel G have been completed. CDPH took receipt of samples for confirmatory analysis on December 3, 2010.

The on-site laboratory is up and running and 1,942 samples have been analyzed. Mr. Whitcomb noted that they need to plan a time for CDPH to the laboratory; he suggested March 17, 2011. Mr. Miya said that the Navy should get two or three more dates that coordinate with RASO and provide those dates with the agencies and CDPH-RHB branch. Mr. Yantos said that the demolition of the pier should start on March 14, 2011. Jackie Dunn (Navy, RPM) said that they are working on finishing the memorandum of understanding (MOU) so that they can start work on time. Mr. Ripperda said that the base is more torn up than it ever has and it might be a good idea to talk to Ross Steenson (Water Board) and Karla Brasaemle (Tech Law, Inc.) about the groundwater excavation inspection.

### **3.0 RU-C5 Treatability Study Update (Hamide Kayaci, Navy)**

Mr. Forman said that the Navy has very good news about remedial unit (RU)-C5. Hamide Kayaci (Navy, RPM) discussed the thermal conduction heating and polish. Ms. Kayaci said that they will go to the website to check the progress and most up to date data. She pointed out the Building 134 treatability study area and the monitoring wells. She discussed the rationale for carbon injection. The polish for dissolved plume near IR25MW11A and IR25MW68A did not meet the sulfate polish criteria. The carbon (Lactoil) was injected to increase degradation rates of

1,4 DCB and chlorobenzen. The 1,4 DCB and CB were both above the project action limits. Ms. Kayaci said that they are going to inject a combination of lactate and emulsified vegetable oil (EVO). She confirmed that they are using a soybean oil for the injection. Tamzen Macbeth (CDM) said that they are going to augment the injection with carbon. She said that it is very difficult to get oxygen distributed to the distribution area so they are continuing to focus on anaerobic processes. Ms. Kayaci pointed out the polish areas at IR25MW11A and IR25MW68A.

Ms. Kayaci discussed the sampling and analysis plan (SAP) addendum. She said that they had hoped that they could get by without a SAP addendum. Ms. Macbeth showed the website for the current data. She said that it is updated about two times per week with the operations and maintenance (O&M) process monitoring data. She noted that they are very close to having boiling point temperatures. Ms. Macbeth introduced the thermal project team to the BCT. Ms. Kito stated that they have been getting national attention on this project. Ms. Macbeth said that they are actually doing a project to clean up agent orange at the Vietnam airport. Representatives for the project are coming to HPS next week to see the process. She said that they are about 110 days into the process. The average temp is 210° F; they should be close to boiling at the end of the process. Jeff Austin (Geosyntec) asked about the average vapor extraction rate and what the difference would be at normal temperatures. Ms. Macbeth answered that the idea is to extract at a rate that you have either a zero or negative pressure in the extraction site. The extraction rate has been set and adjusted based on observations. She said that the extraction rate had been set but it has been increased by 60 to 70 percent recently. They are currently operating below the energy set in the design. She explained the TO-15 result for chemicals of concern (COCs) and other volatile organic compounds (VOCs). She said that as things are warming up, there is a slight increase in the chlorinated solvents. She said that they are pulling out a lot of PCE, and the next highest solvent is acetone. The photoionization detector (PID) is very sensitive to acetone. She said that the spike is consistent with the big slug of dense nonaqueous phase liquid (DNAPL). There should be a 90 percent reduction in concentrations. Mr. Steenson asked about 1,3 butadiene. Ms. Macbeth said that if it was higher than 50 parts per billion (ppb) then they added it to the plot. She said that it is probably from the organic mass in the ground because it is associated with fermentation.

Ms. Kayaci summarized the conclusions. The heating is progressing as planned, the current temperatures are at or near the target temperature (current average is 209°F). They have pneumatic control as indicated by zero and subzero pressures at PMP-1 compared to PMP-2. PMP-3 was temporarily at a positive pressure, but the extraction rate is in the order of 300 standard cubic feet per minute (scfm). The pore volume at the site is exchanged somewhere between 70-80 times per day. She hopes to get the SAP addendum to the BCT during the week of March 7, 2011. She proposed a Webex meeting on March 8 or 9, 2011, to resolve any comment and get concurrence. Ms. Kayaci proposed to have a WebEx on March 7, 2011, at 1 pm and one on March 9, 2011, again at 1 pm. She went over the post treatment monitoring events that will follow. The system demobilization is scheduled for May 2011. The draft report is scheduled for submission to the BCT on August. Mr. Miya clarified that the thermal system is scheduled to be shut down in March but the SVE system will stay on. He asked if they will continue to collect data once the SVE system is going to be shut off and what the decision point is to shut off the system. Ms. Macbeth said that they will continue to operate the system until the residual vapor is extracted.

#### 4.0 PCB Hot Spot TCRA Update (Melanie Kito, Navy)

Ms. Kito said that Material Potentially Presenting An Explosive Hazard (MPPEH) was not a problem until recently. She gave an outline of what has been going on. She said that one round was found when they were digging, but not in a radiological screening yard (RSY). They have a new method that they want to hopefully have the BCT approve today. Parcel E-2 is mostly fill material at HPS. There are no documented previous activities and no historical or anecdotal evidence that munitions were disposed of in Parcel E-2 landfill. There are not Explosives Ordnance Disposal (EOD) areas or open burn pit areas. She summarized the items found in the hot spot areas. She also went over the current screening pad protocol. There are actually three tiers of inspection of the debris and items found during excavation. Ms. Kito said that they have removed a lot of debris but none of it has been munitions or explosives of concern (MEC) or MPPEH. She explained what acceptance of sampling is. She said it is a random sampling instead of checking every single item. She posed the question of what is clean enough. John Carson (Shaw) said that there has been an unexploded ordnance (UXO) module for awhile. They must determine what is considered acceptable. The contractor has the pads set up as 104 by 104 feet and then divided into 3-by-3-foot grids. Ulrika Messer (Shaw) said that using a 3'x3' grid is very typical of this type of dig. She said that they are proposing going back to the 3-by-3-foot grids and figuring that they are 98 percent sure that the pad is 98 percent clean. She said that they are more sure because they have not found any anomalies. Mr. Carson clarified that clean means no anomalies or metal. If they find a clean grid, they will go ahead and scan a grid next to the clean one. Mr. Carson said that the EOD team are trained to scan 3-foot lanes. Mr. Carson said that the metal is clustered in the excavation, then it will be clustered on the pad. He said that 3 feet (1 meter) is standard, and even the geophysical equipment is designed to scan three feet lanes. Tom Hall (Tech Law, Inc.) asked for clarification on the grid and pad. Ms. Brasaemle clarified that if something is seen in the excavation, it will be removed then and will not go to the pad. Mr. McGowan asked what this means in more standard statistical language. Mr. Carson said that they have to design on Type II error. Mr. Hall asked what happens to the soil that is left behind. Ulrika said that the soil is going to be shipped off to a landfill. Mr. Hall said that they will not be able to guarantee that there are no munitions. Mr. Forman said that there are other bases that have found munitions and have more stringent reuse plans than HPS. Mr. Ripperda asked if they have talked to the landfill yet. Lara Urizar (Navy, RPM) confirmed that they have not talked to the landfill, they wanted to get concurrence with Naval Ordnance Safety and Security Activity (NOSSA) and other agencies first. Mr. Ripperda says that it sounds really good, but he does not know a lot about MEC. He is going to talk to Mr. Hall and Ms. Brasaemle after this meeting. He said that institutional controls (ICs) are not an issue here because they are taking all of the excavated material to the landfill. Mr. Hall said that the drill and dummy items found are not defined as MPPEH; they have never had or never will be associated with explosives. Ms. Messer said that they reason that they are doing an MPPEH study is because of previous time-critical removal actions (TCRAs) that have found unidentifiable items that could not be determined that they were not MPPEH. Mr. Carson discussed the overall quality of sampling approach. The two important parameters in determining effectiveness of acceptance sampling approach are the average outgoing quality (AOQ) and the average outgoing quality limit (AOQL). Ms. Kito said that overall this is a more conservative sampling method. Overall, there has been no MEC or MPPEH found to date. Ms. Kito asked what the regulators are thinking about the proposed sampling method. Mr. Ripperda said that it has preliminary approval but he wants to talk to Mr. Hall first. Mr. Miya said it sounds good, but they do not have MPPEH people to consult. DTSC and Water Board deferred to USEPA. Ms. Brownell noted that they are just protecting the landfill. Ms. Kito said that they

will go ahead and amend the ESS. She said that she is going to go ahead as if they have approved the plan and to let her know if there are any problems. She is asking for a quick turn around on the comments.

## **5.0 Parcel E-2 Rad Addendum and RI/FS Appendix O (Melanie Kito, Navy)**

Ms. Kito presented in place of Ms. Urizar. She discussed a timeline of previous activities. Since June 2009, the Navy hosted technical meetings and solicited agency input regarding key technical issues on remedial investigation/feasibility study (RI/FS) report. Appendix O, in the draft and draft final versions of the RI/FS report, focused only on evaluating wetland mitigation options. Doug Bielskis (ERRG) described the existing conditions said that there has been chemical contamination along the shoreline. Intertidal sediments between the meandertideline and a riprap wall placed along portions of the shoreling for erosion control. Copper, lead, and PCBs in the shoreling sediments were identified as a potential source of contamination of offshore Parcel F. The shoreline sediments may also contain radionuclides including Cs-137, Ra-226, and Strontium (Sr)-90. In the adjacent seasonal freshwater wetlands are located close to but not contiguous with the intertidal shoreline zone. The tidal wetlands are located mostly within intertidal shoreline zone but extending slightly into upland areas. The soil near the existing wetlands contain numerous metals and various organic compounds at concentrations that exceeded wetland cover criteria; and also may contain radionuclides. The site conditions confirm that some form of cleanup is needed to protect human health and the environment.

Ms. Kito summarized the pertinent federal and state requirements and potential impacts during cleanup. The heterogeneous distribution of chemicals has prompted the Navy to evaluate cleanup options throughout Parcel E-2 wetlands, including intertidal shoreline zones and adjacent wetlands. As a result, there is no practicable alternative to addressing site contaminants within the intertidal shoreline zones and wetlands in a manner that avoids disturbance. Appropriate actions will be taken to minimize adverse impacts to the intertidal shoreline zones and adjacent wetlands. Rafael Montes (BCDC) clarified that there is no way of avoiding the destruction of the shoreline on Parcel E-2. Mr. Bielskis agreed and said that there will be a loss of wetlands on Parcel E-2. Mr. Montes asked if there are any plans to tell what is planned for reuse. Mr. Bielskis explained that the FS gives the options. Ms. Brownell said that everything will be included in the proposed plan that is due in April. The public comment period goes until August. Mr. Ripperda said that the FS has a range of alternatives, and it is going final soon. Mr. Ripperda said that he most wants BCDC to be comfortable with the design that the Navy chooses. Mr. Montes said he is at a point where he does not feel comfortable with the planned rock revetment. Ms. Brasaemle commented that it was found that this was not a high functioning wetlands and it was basically an attractive nuisance. Mr. Bielskis said that that is all included in the document. Mr. Montes said that he would like to set up a time to talk about the options at a separate meeting to avoid finding out later that what the Navy is doing is not going to be compatible with what the City wants in the long run. He said that last year they were reassured that Parcel E and E-2 would be done better than Buck's Beach. Mr. Ripperda said that he would like to see some pictures and diagrams of what exactly is planned. He said that USEPA's concern is that the landfill is contained. Mr. Bielskis said that they are working on enough detail for Parcel E that they should be ready to submit the document in May or June. Mr. Ripperda suggested a meeting with the Navy to present to BCDC. Mr. Forman agreed to set up a question and answer session with BCDC. Mr. Montes (BCDC) will send an email to Ms. Urizar requesting topics for discussion at the March 25, 2011 meeting. Ms. Urizar said that being part of the CERCLA remedy, the Navy will be required to do 5-year reviews, etc. Mr. Ripperda said

that the one for one proposal was approved by a member of the Water Board many years ago. He said that they are taking existing low quality wetlands and replacing them with hopefully better quality wetlands.

Ms. Kito discussed the schedule. The final RI/FS is scheduled for March 21, 2011, and the draft proposed plan (PP) is scheduled for April 14, 2011. Mr. Montes said that he has tentative dates for a meeting but he needs to check with the biologist at BCDC. The meeting is scheduled for March 25, 2011, at 10 a.m. at BCDC.

## **6.0 Early Transfer Schedule Update (Melanie Kito, Navy)**

Ms. Kito said that the Parcel E-2 final FS radiological addendum has been delayed until March 2011. The Parcel F remedial design has been delayed until January 2014.

## **7.0 Community Involvement Update (Keith Forman, Navy)**

Mr. Forman began the Community Involvement Plan (CIP) update. The draft CIP is scheduled to be released to the community on March 8, 2011. Leslie Lundgren (KCH) said that they are working through comments from the regulatory agencies and most comments have been incorporated already. All comments need to be received on close of business on March 3, 2011. Jackie Lane (USEPA) asked if the Navy had received USEPA comments and if they are all going to be incorporated. Mr. Forman said that the comments have been received but not all of them will be incorporated. Ms. Lundgren clarified that the team has looked over the comments and not everyone agrees with all of USEPA's comments. Mr. Ripperda suggested a meeting on Tuesday, March 1, 2011, in order to discuss the comments to get everyone on the same page. Ms. Lundgren announced that there will be a fact sheet sent out to the full distribution list in anticipation of the draft CIP. A broadcast email will notify community members that the draft CIP is available for review. All interviewees will receive a hard copy of the document or a CD. Several copies will be available in the Anna Waden Library and an electronic copy will be posted on the Navy's website. The Navy is developing ways to get formal comments from the public including using a score card type sheet. Mr. Miya said that a score card is not the best way to collect comments. It will be difficult to receive comprehensive feedback from a score card. Mr. McGowan said that Arc Ecology has offered to help community members in the past write letters and comments to the Navy. Ms. Lundgren discussed the next community meetings. The CIP will be the topic of discussion for the March and April 2011 community meetings. The Navy will host three different meetings in different locations in order to reach different segments of the community. The March 23, 2011, meeting will be held at the Bayview Opera House, the April 2, 2011, meeting will be held at Portola Family Connections, and the April 27, 2011, meeting will be tentatively held at the Mission Cultural Center for Latino Arts. She said that they would discuss the CIP and the Early Transfer process.

Mr. Forman discussed the new meeting formats and new locations. Ms. Lundgren said that the hispanic community had concerns about attending government hosted meetings, signing in, checking IDs, and being able to exit the meetings. Dana Barton (USEPA) commented to Doug Gilkey (Navy, Base Closure Manager [BCM]) that some people still do not think that the Navy is getting the word out to the broader community. Ms. Lane said that she would check with Ms. Barton to see what she is referring to. Mr. Ripperda said that he does not want YCAT going door to door every month. Ms. Lundgren said that it is difficult to tell which neighborhoods YCAT has distributed flyers to. Mr. Forman said that YCAT is in a probationary period right

now, and he is not convinced that they are contributing the goal of reaching a broader community. Mr. Forman said that they need to do radio shows on a regular basis. Mr. Austin asked about doing a radio show on KPOO. Mr. Forman agreed to look into doing the radio show. Ms. Kloss commented that Espanola Jackson's husband hosts a radio show on KPOO.

Mr. Forman stated that Ms. Barton is requesting to see the draft CIP with agency comments incorporated before it is sent out to the community. Ms. Lane did not know why Ms. Barton would make that request. Mr. Forman said that Navy management has received a request for the Navy to attend a meeting for the former Restoration Advisory Board (RAB) members only. Mr. Ripperda said that Ms. Barton should put what she wants in an email and send it to the BCT. Mr. McGowan said that he didn't know which RAB members would be interested in a meeting with the Navy. The USEPA/Navy/CIP Team meeting will be on Tuesday, March 1, 2011, at 1:00 p.m. at the San Francisco CH2M HILL offices.

## **8.0 Action Items/Future Meetings (Keith Forman, Navy)**

The next BCT meeting will be held on March 24, 2011, at CH2M HILL in Oakland, California. Mr. Forman reviewed the action items from the meeting. The action items from the meeting are included as Attachment C.



**ATTACHMENT A:****HUNTERS POINT SHIPYARD  
MEETING ATTENDANCE SHEET**

Topic: BCT Meeting  
 Location: CH2M Hill  
 Oakland, CA  
 Date/Time: February 24, 2011 / 10:00 a.m.

Organization	Name	Phone Number	E-Mail Address	Present
Navy	Keith Forman	619-532-0913	<a href="mailto:keith.s.forman@navy.mil">keith.s.forman@navy.mil</a>	X
	Melanie Kito	619-532-0787	<a href="mailto:melanie.kito@navy.mil">melanie.kito@navy.mil</a>	X
	Jim Whitcomb	619-532-0952	<a href="mailto:james.h.whitcomb@navy.mil">james.h.whitcomb@navy.mil</a>	X
	Lara Urizar	619-532-0960	<a href="mailto:lara.urizar.ctr@navy.mil">lara.urizar.ctr@navy.mil</a>	X
	Hamide Kayaci	619-532-0930	<a href="mailto:hamide.kayaci.ctr@navy.mil">hamide.kayaci.ctr@navy.mil</a>	X
	Chris Yantos	619-532-0952	<a href="mailto:christopher.yantos.ctr@navy.mil">christopher.yantos.ctr@navy.mil</a>	X
	Simon Loli	619-532-0782	<a href="mailto:simon.loli.ctr@navy.mil">simon.loli.ctr@navy.mil</a>	
	Laurie Lowman	757-887-7650	<a href="mailto:laurie.lowman@navy.mil">laurie.lowman@navy.mil</a>	
	Matt Slack	757-887-4212	<a href="mailto:matthew.slack@navy.mil">matthew.slack@navy.mil</a>	
	Zack Edwards	757-887-4692	<a href="mailto:zack.edwards@navy.mil">zack.edwards@navy.mil</a>	
	Chris Dirscher	510-749-5947	<a href="mailto:christopher.dirscher@navy.mil">christopher.dirscher@navy.mil</a>	
	Frank Fernandez	510-749-5936	<a href="mailto:franklin.d.fernandez@navy.mil">franklin.d.fernandez@navy.mil</a>	
	Jarvis Jensen	757-887-4483	<a href="mailto:jarvis.jensen@navy.mil">jarvis.jensen@navy.mil</a>	
	Adam Zwiebel	510-749-5947	<a href="mailto:adam.zwiebel@navy.mil">adam.zwiebel@navy.mil</a>	
	Shane Wells	510-749-5922	<a href="mailto:robert.s.wells@navy.mil">robert.s.wells@navy.mil</a>	
	Jackie Dunn	619-532-0777	<a href="mailto:jackie.dunn@navy.mil">jackie.dunn@navy.mil</a>	X
	Bob Hunt	619-532-0962	<a href="mailto:robert.a.hunt.ctr@navy.mil">robert.a.hunt.ctr@navy.mil</a>	
U.S. EPA	Mark Ripperda	415-972-3028	<a href="mailto:ripperda.mark@epa.gov">ripperda.mark@epa.gov</a>	X
	Sarah Kloss	415-972-3156	<a href="mailto:kloss.sarah@epa.gov">kloss.sarah@epa.gov</a>	X
	Jackie Lane			X
DTSC	Ryan Miya	510-540-3775	<a href="mailto:rmiya@dtsc.gov">rmiya@dtsc.gov</a>	X
	Michelle Dalrymple	510-540-3926	<a href="mailto:mdalrymple@dtsc.ca.gov">mdalrymple@dtsc.ca.gov</a>	
RWQCB	Ross Steenson	510-622-2445	<a href="mailto:rsteenson@waterboards.ca.gov">rsteenson@waterboards.ca.gov</a>	X
CDPH	Jeff Wong	510-620-3423	<a href="mailto:jeff.wong@cdph.ca.gov">jeff.wong@cdph.ca.gov</a>	X
	Tracy Jue	916-324-4808	<a href="mailto:tracy.jue@cdph.ca.gov">tracy.jue@cdph.ca.gov</a>	
	Kurt Jackson			X
	Larry Morgan			
	Steve Hsu	916-440-7940	<a href="mailto:steve.hsu@cdph.ca.gov">steve.hsu@cdph.ca.gov</a>	
CDFG	Charlie Huang	916-324-9805	<a href="mailto:chuang@ospr.dfg.ca.gov">chuang@ospr.dfg.ca.gov</a>	
	Tammy Nakahara	916-324-8452	<a href="mailto:tnakahara@ospr.dfg.ca.gov">tnakahara@ospr.dfg.ca.gov</a>	
City of SF	Amy Brownell	415-252-3967	<a href="mailto:amy.brownell@sfdph.org">amy.brownell@sfdph.org</a>	X
	Sigrida Reinis	415-955-9040	<a href="mailto:sreinis@treadwellrollo.com">sreinis@treadwellrollo.com</a>	X
	Dorinda Shipman	415-955-9040	<a href="mailto:dcshipman@treadwellrollo.com">dcshipman@treadwellrollo.com</a>	
Geosyntec	Jeff Austin	415-218-0027	<a href="mailto:jasustin@geosyntec.com">jasustin@geosyntec.com</a>	X
BVHP/Lennar	Steve Rottenborn	408-458-3205	<a href="mailto:srottenborn@harveyecology.com">srottenborn@harveyecology.com</a>	

<b>Organization</b>	<b>Name</b>	<b>Phone Number</b>	<b>E-Mail Address</b>	<b>Present</b>
Tech Law Inc., <i>EPA contractor</i>	Karla Brasaemle	415-281-8730	<a href="mailto:kbrasaemle@techlawinc.com">kbrasaemle@techlawinc.com</a>	X
	Tom Hall			X
<i>Navy contractors</i>				
Tetra Tech EM Inc.	Steve Hall	619-321-6709	<a href="mailto:steve.hall@ttemi.com">steve.hall@ttemi.com</a>	
	Tim Mower	313-312-8874	<a href="mailto:tim.mower@ttemi.com">tim.mower@ttemi.com</a>	
Tetra Tech EC, Inc.	Bill Dougherty	415-216-2731	<a href="mailto:bill.dougherty@tetrattech.com">bill.dougherty@tetrattech.com</a>	
Sealaska Environmental Services	Lauren Cason	619-564-8329	<a href="mailto:lauren.cason@sealaska.com">lauren.cason@sealaska.com</a>	X
CE2	Bruce Rucker	925-400-4586	<a href="mailto:rucker@ce2corp.com">rucker@ce2corp.com</a>	
	John Copland	925-463-7301	<a href="mailto:copland@ce2corp.com">copland@ce2corp.com</a>	
Kleinfelder	Gary Goodemote	510-628-9000	<a href="mailto:ggoodemote@kleinfelder.com">ggoodemote@kleinfelder.com</a>	
	Gabriel Fuson	510-774-4115	<a href="mailto:gfuson@kleinfelder.com">gfuson@kleinfelder.com</a>	X
	Charlie Almestad	510-628-9000	<a href="mailto:calmestad@kleinfelder.com">calmestad@kleinfelder.com</a>	
KCH	Leslie Lundgren	415-541-7110	<a href="mailto:leslie.lundgren@ch2m.com">leslie.lundgren@ch2m.com</a>	X
ERRG	Doug Bielskis	925-726-4119	<a href="mailto:doug.bielskis@errg.com">doug.bielskis@errg.com</a>	X
	John Sourial	415-848-7103	<a href="mailto:john.sourial@errg.com">john.sourial@errg.com</a>	
ITSI	Jim Schollard	925-946-3107	<a href="mailto:jschollard@itsi.com">jschollard@itsi.com</a>	
	Brett Womack	925-250-8077	<a href="mailto:bwomack@itsi.com">bwomack@itsi.com</a>	
	Ken Leonard		<a href="mailto:kleonard@itsi.com">kleonard@itsi.com</a>	
Jonas and Associates	Gilbert Yousif	415-559-8232	<a href="mailto:gyousif@jonasinc.com">gyousif@jonasinc.com</a>	X
Shaw Group	Wayne Akiyama	925-288-2003	<a href="mailto:wayne.akiyama@shawgrp.com">wayne.akiyama@shawgrp.com</a>	
	Tom Carson			X
	Ulrika Messer		<a href="mailto:ulrika.messer@shawgrp.com">ulrika.messer@shawgrp.com</a>	X
Battelle	Cannon Silver	619-424-7606	<a href="mailto:silverc@battelle.org">silverc@battelle.org</a>	
	John Hardin	619-574-4827	<a href="mailto:hardinj@battelle.org">hardinj@battelle.org</a>	
MACTEC	Jeff Fenton	707-544-6134	<a href="mailto:jfenton@mactec.com">jfenton@mactec.com</a>	X
	Dharme Rathnayake	415-278-2111	<a href="mailto:drathnayake@mactec.com">drathnayake@mactec.com</a>	
	Ray Hendy		<a href="mailto:lrhendy@mactec.com">lrhendy@mactec.com</a>	
URS	Jerry Zimmerle	714-433-7738	<a href="mailto:jerome.zimmerle@urscorp.com">jerome.zimmerle@urscorp.com</a>	
TN & Associates	Suman Sharma	510-223-1344	<a href="mailto:ssharma@otiesolutions.com">ssharma@otiesolutions.com</a>	
	Mike Quillin	925-286-9043	<a href="mailto:mquillin@onsesolutions.com">mquillin@onsesolutions.com</a>	
CDM	Tamzen Macbeth	208-569-5147	<a href="mailto:macbethtw@cdm.com">macbethtw@cdm.com</a>	
	Matt Brookshire	858-268-3383	<a href="mailto:brookshirems@cdm.com">brookshirems@cdm.com</a>	
Arc Ecology	Mike McGowan	415-643-1190	<a href="mailto:mikemcgowan@arcecoology.org">mikemcgowan@arcecoology.org</a>	X
BCDC	Ethan Lowry	732-309-2934		
	Rafael Montes	415-352-3670	<a href="mailto:rafaelm@bcd.ca.gov">rafaelm@bcd.ca.gov</a>	X
	Ian McConnaba	510-590-6027		

**ATTACHMENT B-1: COMPLETED REVIEW PERIODS  
HUNTERS POINT SHIPYARD DOCUMENT REVIEW TABLE**

Item	Parcel	Document Name	Submittal Date	Expected Date for Comments	Notes	Agency Submittal of Comments			
						EPA	DTSC	RWQCB	City of SF
1	B	Final FSS Report Building 157	11/17/10	n/a					
2	UC	Final - Package 33 Survey Unit Project Reports (164,167,168,171))	11/19/10	n/a					
3	UC-1,UC-2	Draft UC 1&2 RAD RACR	11/23/10	12/23/10			12/22/10		
4	C	Final Parcel C Design Work Plan for Areas 31,32,33,34,35	11/29/10	n/a					
5	Base-wide	Basewide Final Dust Control Plan Rev 1	11/29/10	n/a					
6	Basewide	Final Storm water Pollution Prevention Plan(sanitary storm drain removal)	11/29/10	n/a					
7	Basewide	Basewide Draft Amended SAP GWMP	12/8/10	1/13/11			2/2/11	2/7/11	1/10/11
8	E	Draft - Package 34 Survey Unit Project Reports (152,154,155,156)	12/8/10	1/7/11					
9	B	Final Remedial Design and Specifications	12/10/10	n/a					
10	G	Revised Draft Work Package #25 Survey Unit Project Reports (85,86,87,88,89)	12/16/10	1/16/11					

**ATTACHMENT B-1: COMPLETED REVIEW PERIODS (continued)**  
**HUNTERS POINT SHIPYARD DOCUMENT REVIEW TABLE**

Item	Parcel	Document Name	Submittal Date	Expected Date for Comments	Notes	Agency Submittal of Comments			
						EPA	DTSC	RWQCB	City of SF
11	B/G	Draft FOSET	12/16/10	1/14/11		1/13/11	1/13/11	1/4/11	1/17/11
12	B	Draft Final TPH Closure Report volume II	12/17/10	12/15/10					1/12/11
13	B,D-1,G,UC2	Final Work Plan for Soil Gas Investigation in Support of Vapor Intrusion Assessment Parcels B, D-1,G and UC-2/	12/17/10	na					
14	B	Draft Final Petroleum Hydrocarbon Site Closeout Report Parcel B, Volume II	12/17/10	1/10/11					
15	G	Draft - Package 29 Survey Unit Project Reports (108, 109, 110, 11, 112)	12/17/10	1/17/11					
16	B,D-1,G,UC-2	Final Soil Gas Survey Workplan	12/17/10	n/a					
17	F	Final Pier Demolition Work Plan	12/18/10	1/21/11					
18	G	Draft Package #30 Survey Unit Project Reports (113,114,116,117,118)	12/20/10	1/20/11					
19	G	Draft - Package #31 Survey Unit Project Reports (119, 120, 121, 122, 123)	12/21/10	1/21/11					
20	UC1,UC2	Final Remedial Design Package Parcels UC1 and UC2	12/22/10	na					

**ATTACHMENT B-1: COMPLETED REVIEW PERIODS (continued)**  
**HUNTERS POINT SHIPYARD DOCUMENT REVIEW TABLE**

Item	Parcel	Document Name	Submittal Date	Expected Date for Comments	Notes	Agency Submittal of Comments			
						EPA	DTSC	RWQCB	City of SF
21	G	Draft Package #32 Survey Unit Project Reports for Survey units (124,129,151,153,84)	12/22/10	1/21/11					
22	UC-1,UC-2	Final Remedial Design and Specifications	12/22/10	n/a					

**ATTACHMENT B-2: CURRENTLY UNDER REVIEW  
HUNTERS POINT SHIPYARD DOCUMENT REVIEW TABLE**

Item	Parcel	Document Name	Submittal  Date	Expected Date for Comments	Notes	Agency Submittal of Comments			
						EPA	DTSC	RWQCB	City of SF
1	B, E-2	Draft Work Plan for Geotechnical Investigation at Parcel E-2 (IR site 01/21) &Parcel B (IR Site 26)	1/6/11	2/6/11			2/8/11	2/9/11	
2	B	Final Package 7 Survey Unit Project Reports (22, 30, 33, and 41)	1/7/11	n/a					
3	B, D-1, G, and UC-2	Replacement pages for the Final Work Plan for Soil Gas Investigation in Support of Vapor Intrusion Assessment Parcels B, D-1, G and UC-2, Hunters Point Shipyard, San Francisco, CA, dated December 2010	1/10/11	n/a					
4	B	Final - Package #17 Survey Unit Project Reports ( 36, 59, 61, 62, and 63)	1/11/11	n/a					
5	B	Final Package #8 Survey Unit Project Reports (13, 14, 19, 20, and 21)	1/11/11	n/a					
6	G	Replacement Pages for the Revised Final Land Use Control Remedial Design Report	1/11/11	n/a					

**ATTACHMENT B-2: CURRENTLY UNDER REVIEW (continued)**  
**HUNTERS POINT SHIPYARD DOCUMENT REVIEW TABLE**

Item	Parcel	Document Name	Submittal Date	Expected Date for Comments	Notes	Agency Submittal of Comments			
						EPA	DTSC	RWQCB	City of SF
7	B	Final Package #9 Survey Unit Project Report (42,45,47,52)	1/13/11	n/a					
8	B	Final Survey Unit Project Report (15,17,18,29,40)	1/13/11	n/a					
9	B	Final - Package 5 Survey Unit Project Report (23,25,26,27,28)	1/13/11	n/a					
10	B	Final Package 6 Survey Unit Project Report (24,39,43,44,46)	1/13/11	n/a					
11	B	Final Package #18 Survey Unit Project Report (37,48,49,51A)	1/13/11	n/a					
12	B	Final Package #19 Survey Unity Project Report (53,56,65)	1/13/11	n/a					
13	E	Final Execution Plan, Parcel E,500 Series Area Radiological Remediation and Support	1/20/11	n/a					
14	B	Final Package #10 Survey Unit Project Reports (54,57,58,60,64)	1/25/11	n/a					

**ATTACHMENT B-2: CURRENTLY UNDER REVIEW (continued)**  
**HUNTERS POINT SHIPYARD DOCUMENT REVIEW TABLE**

Item	Parcel	Document Name	Submittal Date	Expected Date for Comments	Notes	Agency Submittal of Comments			
						EPA	DTSC	RWQCB	City of SF
15	B	Final Package #11 Survey Unit Survey Projects (125,126,127,128,130,131,132)	1/25/11	n/a					
16	Base-wide	Final Execution Plan, Base Wide Radiological Support.	1/26/11	n/a					
17	B	Final Package #20 Survey Unit Survey Projects ( 50,50A,51,55)	1/26/11	n/a					
18	C	Draft In situ Anaerobic bioremediation treatability study completion report. RU-C-1, Building 253.	1/27/11	2/28/11			2/18/11		
19	D-1,D-2, G	Final - Petroleum hydrocarbon Site Closeout Report Parcels D-1,D-2, and G	1/28/11	n/a					
20	B	Final Survey Unit Project Reports for Units 7,10	1/31/11	n/a					
21	B	Final Final Status Survey Results, Building 810	2/1/11	3/4/11					
22	E	Draft Package #35 Survey Unit Survey Projects (157,158,159, and 160)	2/3/11	3/7/11					



**ATTACHMENT B-2: CURRENTLY UNDER REVIEW (continued)**  
**HUNTERS POINT SHIPYARD DOCUMENT REVIEW TABLE**

Item	Parcel	Document Name	Submittal Date	Expected Date for Comments	Notes	Agency Submittal of Comments			
						EPA	DTSC	RWQCB	City of SF
23	E	Draft Package #36 Survey Unit Project Reports (161,162,163,165)	2/8/11	3/10/11					
24	B, E-2	Final Work Plan for Geotechnical Investigation	2/8/11	n/a					
25	UC-1,UC-2	Findings of Suitability to Transfer for Parcels UC- 1 and UC-2	2/11/11						
26	D-1	Final Remedial Design Package Parcel D-1,	2/11/11	n/a					
27	E	Final Status Survey Results Unit 70, Building 414	2/15/11	3/17/11					
28	E	Draft Work Plan IR 03	2/15/11	30 days from submittal date					
29	E	Draft Parcel E Groundwater Treatability Study Technical Report	2/16/11	3/18/11					

**ATTACHMENT B-3: UPCOMING REVIEW PERIODS  
HUNTERS POINT SHIPYARD DOCUMENT REVIEW TABLE**

Item	Parcel	Document Name	Submittal	Expected Date	Notes	Agency Submittal of Comments			
			Date	for Comments		EPA	DTSC	RWQCB	City of SF
1	E-2	Final Radiological Addendum for the RI/FS with RTCs	3/4/11	n/a	Final date based on receipt of comments				
2	Basewide	Draft Community Involvement Plan	3/8/11	4/1/11	Date is tentative				
3	C	Draft Remedial Design	3/10/11	30 days from submittal date	Date is tentative				
4	B,D-1,G,UC-2	Draft Soil Gas Survey Tech Memo	3/21/11	30 days from submittal date	Date is tentative				
5	E-2	Final RI/FS with RTCs	3/21/11	n/a	Final date based on receipt of comments				
6	E-2	Shipshielding TCRA-Draft Action Memorandum	3/29/11	30 days from submittal date	Date is tentative				
7	E-2	Draft Work Plan - Shipshielding TCRA	3/29/11	30 days from submittal date	Date is tentative				
8	B	Final - Petroleum hydrocarbon Site Closeout Report Parcel B	3/30/11						

**ATTACHMENT B-3: UPCOMING REVIEW PERIODS (continued)**  
**HUNTERS POINT SHIPYARD DOCUMENT REVIEW TABLE**

Item	Parcel	Document Name	Submittal Date	Expected Date for Comments	Notes	Agency Submittal of Comments			
						EPA	DTSC	RWQCB	City of SF
9	B	Final TPH Closure Report, Vol I and II	3/31/11	n/a	Final date based on receipt of comments				
10	F	Final Radiological Data Gap Investigation Work Plan	3/31/11	n/a	Date is tentative				
11	B,D-1,G,UC-2	Final Soil Gas Survey Tech Memo	4/1/11	n/a	Final date based on receipt of comments				
12	E	Treatability Study Final Report and RTCs	4/6/11	30 days from submittal date	Date is tentative				
13	E-2	Draft Proposed Plan (to BCT)	4/11/11	30 days from submittal date	Date is tentative				
14	C	Final GWTS Technical Report-RU C1	4/14/11	n/a	Date is tentative				
15	C, E	Draft Soil Vapor Sampling Workplan	4/15/11		Date is tentative				
16	Basewide	Submit Final CIP	4/28/11		Date is tentative				
17	E	Final TPH CAP Work Work Plan	5/15/11	n/a	Final date based on receipt of comments				

Notes:

*	Comments deferred to other agency	PCB	Polychlorinated biphenyl
CAP	Corrective Action Plan	ROD	Record of decision
CDPH	California Department of Public Health	RI	Remedial investigation
DTSC	Department of Toxic Substances Control	RTC	Response to comment
EPA	U.S. Environmental Protection Agency	RWQCB	San Francisco Bay Regional Water Quality Control Board
FOSET	Finding of suitability for early transfer	SF	San Francisco
FOSL	Finding of suitability to lease	SUPR	Survey Unit Project Report
FOST	Finding of suitability to transfer	TCRA	Time critical removal action
FS	Feasibility study	TPH	Total petroleum hydrocarbon
FSS	Final status survey		
n/a	Not applicable		

# ATTACHMENT C: HUNTERS POINT SHIPYARD BASE REALIGNMENT AND CLOSURE CLEANUP TEAM ACTION ITEMS

Item No.	Action Item	Person Authoring the Action Item	Due Date	Person/Agency Committing to Action Item	Resolution Status
<b>New Action Items</b>					
1	Rafael Montes (BCDC) will send an email to Lara requesting topics for discussion at the March 25, 2011 meeting.	Rafael Montes, BCDC		Rafael Montes, BCDC	
<b>Outstanding Action Items</b>					
2	Mr. Whitcomb will get in contact with CDPH about collecting samples at the Buildings 313, 313A, and 322 sites while the excavation sites and trenches are still open.	Jim Whitcomb, Navy		Jim Whitcomb, Navy	In progress. Mr. Whitcomb said that more sampling is being conducted and they are not at a place to split samples.
3	Jim Whitcomb will provide a copy of the Radiological Program schedule to Steve Hsu (CDPH) in order to plan and schedule radiological scans and a list of site statuses.	Jim Whitcomb/Navy		Jim Whitcomb/Navy	In Progress.
4	Tracy Jue (CDPH) will find out from Larry Morgan (CDPH) the status of the five samples submitted for confirmatory analysis from Sites 317,364 expansion area, 365, and Building 157 and will send an email to Ryan Miya. Keith wants to have an update on the 53 days into the 80 day clock.	Tracy Jue/ Ryan Miya		Tracy Jue/Ryan Miya	In progress.

Item No.	Action Item	Person Authoring the Action Item	Due Date	Person/Agency Committing to Action Item	Resolution Status
<b>Outstanding Action Items</b>					
5	The Navy will provide the Water Board the rad results from the storm water in the frac tanks to determine if that water can be used for dust control.	Navy		Navy	In progress. Ms. Urizar stated that they do not have all of the results yet, possibly in four weeks.